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(54) Improvements relating to fishing lines

(57) A fishing line of braided construction has some filaments of high tensile polythene. The other filaments are of polyester and/or nylon, and the braid may be coated with a sheath of polyurethane.

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"Improvements relating to Fishing Lines"

This invention relates to fishing lines.

Fishing lines require many qualities, such as high tensile strength, while having a small diameter, non-stretchability, resistance to abrasion, smooth running and suppleness. It is the aim of this invention to provide a line embodying most of these not usually very compatible properties.

According to the present invention there is provided a fishing line of braided construction, some braid filaments being of high tensile polythene thread and other filaments being of polyester and/or nylon.

The high tensile polythene gives the line minimal stretchability and will preferably be a high molecular weight polythene, melted in a solvent and drawn at high speed into extremely fine strands. This produces almost perfect alignment of all the molecules in long chains. A suitable product is that sold under the Registered Trade Mark DYNEEMA.

With polyester, multifilaments will generally be used, and the more there are of them in proportion to the polythene the stiffer the line will be. With nylon, monofilaments will preferably be used and the principal effect will be a low coefficient of friction.

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It would be possible for certain applications to combine both polyester and nylon with the polythene thread.

5 The braid may be coated with a thin, supple and smooth sheath of polyurethane and this may be carried out by a simple immersion process in liquid polyurethane. It will alter the characteristics (such as buoyancy and strength) in a predictable manner, but its main purpose is
10 to prevent saturation of the interstices of the braid. In very cold conditions, such as fishing through holes in ice, water having worked its way into the braid will freeze and impart a brittleness that can lead to breakage.

SL/SCS

CLAIMS

1. A fishing line of braided construction, some braid filaments being of high tensile polythene thread and other filaments being of polyester and/or nylon.
- 5 2. A line as claimed in Claim 1, wherein the other filaments include polyester multi-filaments.
3. A line as claimed in Claim 1 or 2, wherein the other filaments include nylon monofilaments.
4. A line as claimed in Claim 1, 2 or 3, wherein
10 the braid is coated by a sheath of polyurethane.
5. A line as claimed in any preceding Claim, wherein the polythene is that sold under the Trade Mark DYNEEMA.